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Attorney Docket No. 02307Z-085810US

DECLARATION

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: OPTICAL AMPLIFICATION OF MOLECULAR INTERACTIONS USING LIQUID CRYSTALS, the specification of which ___ is attached hereto or X was filed on July 31, 1998 as Application No. 09/127,382 and was amended on ___ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
			Yes _ No _
			Yes _ No _

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application No.	Date of Filing	Status
09/092,453	June 5, 1998	_ Patented <u>X</u> Pending _ Abandoned
		_ Patented _ Pending _ Abandoned

Full Name of Inventor 1	Last Name Abbott	First Name Nicholas	Middle Name or Initial L.	
Residence & Citizenship	City Davis MADISON	State/Foreign Country California WISCONSIN	Country of Citizenship Australia	
Post Office Address	Post Office Address 3741 Modoc Place 2635 CHAMBERLAIN AVE.	City Davis MADISON	State/Country California WI	Zip Code 53705 956167
Full Name of Inventor 2	Last Name Skaife	First Name Justin	Middle Name or Initial J.	
Residence & Citizenship	City Lafayette	State/Foreign Country California	Country of Citizenship U.S.A.	
Post Office Address	Post Office Address 55 Silverwood Drive	City Lafayette	State/Country California	Zip Code 94549
Full Name of Inventor 3	Last Name Gupta	First Name Vinay	Middle Name or Initial K.	
Residence & Citizenship	City Urbana	State/Foreign Country Illinois	Country of Citizenship India	
Post Office Address	Post Office Address 1803 Oliver Drive , #5	City Urbana	State/Country Illinois	Zip Code 61802
Full Name of Inventor 4	Last Name Dubrovsky	First Name Timothy	Middle Name or Initial B.	
Residence & Citizenship	City Flemington	State/Foreign Country New Jersey	Country of Citizenship Russia	
Post Office Address	Post Office Address 716 Reed Court	City Flemington	State/Country New Jersey	Zip Code 08822
Full Name of Inventor 5	Last Name Shah	First Name Rahul	Middle Name or Initial	
Residence & Citizenship	City Davis Madison	State/Foreign Country California Wisconsin	Country of Citizenship U.S.A.	
Post Office Address	Post Office Address 300 Solano Park Circle, Apartment 12-C 502 EAGLE HTS #A	City Davis Madison	State/Country California WI	Zip Code 95616 53705

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 <i>N. Abbott</i> Nicholas L. Abbott	Signature of Inventor 2 <i>Justin J. Skaife</i> Justin J. Skaife	Signature of Inventor 3 <i>Vinay K. Gupta</i> Vinay K. Gupta
Date <i>Sept 9, 1998</i>	Date	Date <i>Sept. 14, 1998</i>
Signature of Inventor 4 <i>Timothy B. Dubrovsky</i> Timothy B. Dubrovsky	Signature of Inventor 5 <i>Rahul Shah</i> Rahul Shah	Signature of Inventor 6 <i>Gu 1/4/98</i> Gu 1/4/98
Date <i>Sept. 15, 1998</i>	Date <i>09/17/98</i>	Date <i>9.18.98</i>

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Atty. Docket No. 02307J-069910

UC Case No. 98-207-2

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS
(37 CFR 1.9(f) and 1.27(d)) - NONPROFIT ORGANIZATION

Applicant or Patentee: Nicholas L. Abbott, et al.Application or Patent No.: 09/127,382Filed or Issued: July 31, 1998Title: OPTICAL AMPLIFICATION OF MOLECULAR INTERACTIONS USING LIQUID CRYSTALS

I hereby declare that I am an official empowered to act on behalf of the nonprofit organization identified below:

Name of Nonprofit Organization: The Regents of the University of CaliforniaAddress of Nonprofit Organization: 1111 Franklin Street, 12th FloorType of Nonprofit Organization: Oakland, CA 94607-5200

- ☒ University or other institution of higher education
☒ Tax exempt under Internal Revenue Service Code [26 USC 501(a) and 501(c)(3)]
☐ Nonprofit scientific or educational under statute of state or the United States of America
(Name of state _____)
(Citation of statute _____)
☐ Would qualify as tax exempt under Internal Revenue Service Code [26 USC 501(a) and 501(c)(3)] if located in the United States of America
☐ Would qualify as nonprofit scientific or educational under statute of state of the United States of America if located in the United States of America
(Name of state _____)
(Citation of statute _____)

I hereby declare that the nonprofit organization identified above qualifies as a nonprofit organization as defined in 37 CFR 1.9(e) for purposes of paying reduced fees to the United States Patent and Trademark Office regarding the invention, entitled OPTICAL AMPLIFICATION OF MOLECULAR INTERACTIONS USING LIQUID CRYSTALS by inventor(s) Nicholas L. Abbott, Justin J. Skaife, Vinay K. Gupta, Timothy B. Dubrovsky, and Rahul Shah described in:

- ☐ the specification filed herewith.
☒ Application No. 09/127,382, filed July 31, 1998.
☐ Patent No. _____, issued _____.

I hereby declare that rights under contract or law have been conveyed to and remain with the nonprofit organization regarding the above identified invention.

If the rights held by the nonprofit organization are not exclusive, each individual, concern or organization having rights in the invention is listed below* and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern that would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

Name N/A
Address _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

Name N/A
Address _____

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

Name of Person Signing: Linda S. Stevenson
Title in Organization of Person Signing: Principal Prosecution Analyst
Address of Person Signing: 1111 Franklin Street, 5th Floor
Oakland, CA 94607-5200

Signature _____

Date September 21, 1998

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on

Attorney Docket No. 02307Z-085810US

By Debra Ann DeBello
Debra Ann DeBello

In re application of:

ABBOTT et al.

Examiner: Unknown

Serial No.: 09/127,382

Art Unit: 2871

Filed: July 31, 1998

Batch No: F87

For: OPTICAL AMPLIFICATION OF
MOLECULAR INTERACTIONS
USING LIQUID CRYSTALS

NOTICE TO CHANGE INVENTOR ADDRESSES

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

Please change three of the inventors' addresses as follows:

Nicholas L. Abbott
2635 Chamberlain Avenue
Madison, Wisconsin 53705

Vinay K. Gupta
1803 Oliver Drive, #5
Urbana, Illinois 61802

Rahul Shah
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Respectfully submitted,

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Station	Time	Lat	Long	Alt	Temp	Wind	Clouds	Pressure	Humidity	Visibility	Remarks
1	0000	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
2	0100	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
3	0200	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
4	0300	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
5	0400	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
6	0500	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
7	0600	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
8	0700	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
9	0800	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
10	0900	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
11	1000	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
12	1100	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
13	1200	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
14	1300	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
15	1400	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
16	1500	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
17	1600	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
18	1700	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
19	1800	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
20	1900	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
21	2000	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
22	2100	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
23	2200	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear
24	2300	34° 15' N	121° 05' E	10	10.0	0	0	1013.2	100	10	Clear